

XXI. *Monograph of the British Species of the Genus Chrysopa.* By W. F. EVANS, Esq.

[Read 6th September, 1847.]

THE following table has been drawn up after a careful examination of those possessed by J. F. Stephens, Esq., the greater portion of which he kindly lent me to draw the accompanying figures from, which I have thought would aid in the discrimination of the several species.

But little attention has been paid to the early states of these insects. The larvæ of *C. perla* and *C. reticulata*, it would appear, cover themselves with the skins of their prey, the *Aphides*, on which they all feed most voraciously. (See Stephens' Mand. vol. vi.; Westwood's Mod. Class. Ins. vol. ii., and Kirby and Spence's Introd.; and Reaumur, vol. iii.) Five different cocoons and larvæ can readily be distinguished on reference to the plates.

EXPLANATION OF THE PLATES.

Pl. IX. fig. 1. <i>Chrysopa alba.</i>	Pl. IX. fig. 5. <i>Chrysopa subfalcata.</i>
2. " <i>affinis.</i>	6. " <i>carnea.</i>
3. " <i>angustipennis.</i>	7. " <i>abbreviata.</i>
4. " <i>perla.</i>	

Larva of *C. perla*, from Albin, pl. 64 (under fig. 2).
ditto from a living specimen.

Cocoon of *C. alba*? from Reaumur, vol. iii. pl. 33, fig. 2 (under fig. 2).

Cocoon of *Drepanepteryx Phalænoides*, see Reaumur, vol. iii. pl. 32, fig. 8, and his description.

Pl. X. fig. 1. <i>Chrysopa fulviceps.</i>	Pl. X. fig. 4. <i>Chrysopa maculata.</i>
2. " <i>capitata.</i>	5. " <i>immaculata.</i>
3. " <i>reticulata.</i>	6. " <i>ventralis.</i>

Portion of maxillary palpi, from Wesmael, *Héméroïdes de Belgique*.

Tarsi—claws—antennæ—a portion of a wing.

Eggs, from Reaumur.

Larva of *C. alba*, from a living specimen (in the centre), see Reaumur's figures, &c. with which this agrees.

Cocoon of *C. perla*, from Albin, pl. 64 (in the centre), see Lister on Gödart, fig. No. 104, and Ratzburg Die Först Insecten, tab. 16, with which this agrees.

Larva of *Drepanepteryx*, from Reaumur, (upper figure under No. 6).

Larva of an unknown species, from Reaumur, (under the above).

Two cocoons, from Reaumur.

Larva (? of *C. reticulata* or *alba*), from Reaumur, covered.

	SYNONYMIES.	BIBLIOGRAPHICAL REFERENCES TO FIGURES.	EXPANSE OF WINGS IN LINES.	WINGS.
<i>C. perla</i> , Pl. IX. fig. 4.	<i>pectinicornis</i> , Besk.	Don. 8, pl. 277, fig. 2; Barbut, Gen. 220, pl. 22; Shaw, G. 3, b. 258, pl. 83; Reaum. 3, pl. 32; Westw. Mod. Class. 2, 46; Albin. pl. 64; Lister on God. p. 93, No. 104; Ent. Mag. 4, 176; Ratz. die Först Ins. pl. 14, 8; Petag. Ins. Cal. 336, 1, p. x. 17; Roesel, 3, 128, 30, fol. 21, 5; Göd. 2, 40, pl. 7, fig. 14; Westw. Ent. Text Book, pl. 3.	14 to 23	Green
<i>C. affinis</i> , Pl. IX. fig. 2.	.....	.....	12 to 14	Pale green ..
<i>C. subfalcata</i> , Pl. IX. fig. 5.	.....	.....	14 to 16	Pale green ..
<i>C. alba</i> , Pl. IX. fig. 1.	<i>vittata</i> , Wesm.... <i>albus</i> , Oliv. ,, Panz. <i>flavus</i> , Scop. ,, Roes. ,, Scharf.	Panz. F. 87, f. 14; Ratz. pl. 14, f. 6? Reaum. 3, tab. 33, f. 2.	10 to 12	Delicate white, with yellowish green iridescence.
<i>C. angustipennis</i> , Pl. IX. fig. 3. (? var. of <i>alba</i>.)	.....	.....	12 to 15	Delicate white, with yellowish green.
<i>C. abbreviata</i> , Pl. IX. fig. 7.	.....	Curt. Brit. Ent. pl. 520	9 to 10	Green
<i>C. immaculata</i> , Pl. X. fig. 5. (? var. of <i>abbreviata</i>.)	.....	.....	9 to 12	Pale green, iridescent.
<i>C. reticulata</i> , Pl. X. fig. 3.	<i>chrysops</i> , Oliv.... ,, Petag. ,, Latr. ,, Illig. ,, Schra. ,, Fab. <i>viridis</i> , Retz.	Wood, 2, 29, pl. 49; Panz. F. 87, f. 13; De Geer, 2, 708, pl. 22, 1, 2; Schaeff. Icon. pl. 5, 7, 8; Ins. Transf. p. 45; Samouelle's Ent. Cab. No. 2, f. 1.	10 to 14	Bluish green .
<i>C. capitata</i> , Fab. Pl. X. fig. 2.	<i>capitatus</i> , Fab....	Cuv. An. Kingd.	10 to 16	Hyaline, very iridescent.
<i>C. maculata</i> , Stephens, Pl. X. fig. 4.	.....	.....	10 to 11	Pale green, rufescent nervures.
<i>C. ventralis</i> , Curtis, Pl. X. fig. 6.	<i>punctifrons</i> , Steph. <i>cancellata</i> , Wesm.	Curt. Brit. Ent.	14 to 16	Pale yellowish.
<i>C. fulviceps</i> , Stephens, Pl. X. fig. 1.	<i>fulvocephala</i> , Sam.	Steph. Mand. 6, pl. 30, 2 ...	16 to 19	Rufescent ...
<i>C. carnea</i> , Pl. IX. fig. 6.	.....	.....	11 to 12	Rufescent, rosy, iridescent.

LEGS.	ANTENNÆ.	EYES.	PARTICULAR CHARACTERS.	WHEN FOUND.	WHERE FOUND.
Green	Green	Golden	Stigma darker	May, June ..	London, Kent, &c.
Greenish ..	Greenish	Brassy	.....	June	London, Kent, &c.
Pale	Pale	Brassy	Base of segments of body brownish.	June	London, &c.
Pale	Pale	Golden green.	.....	June	London, Kent, Lancashire, &c.
Pale	Pale	Golden	Two brown lines on thorax.	June	London.
Pale green, tarsi reddish.	Ochreous	Blue ..	Wings short and rounded, black dot on basal joints of antennæ and on the head, and two streaks on the thorax.	June, July, August.	Dover, Devon, Wales, Berkshire, &c.
Pale green, tarsi reddish.	Reddish	Green.	Wings short and rounded.	June	London.
Green, tarsi reddish.	Reddish	Golden	Nervures of wings black, black line on the head and marks on the thorax.	June	London, Darenth, &c.
Pale	Black	Green.	.....	June	Hertford, Ripley, &c.
Pale	Reddish	Dark ..	Wings rounded and short, head with spots on it before and behind the eyes, and marks on thorax.	June	Darenth.
Pale	Pale	Pale green.	Black dot between the antennæ, and two on thorax.	June	Darenth, &c.
Pale	Pale	Black.	Head bright fulvous, stigma elongated.	June, July ...	Darenth, New Forest.
Pale	Pale	Blue ..	Head rosy, wings short and rounded, stigma rosy.	June	London, &c.